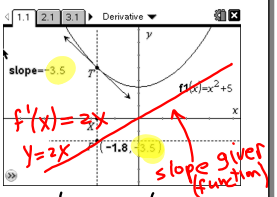
3.1 Derivative as a function $= f'(x)$

Drag point X. What do you notice about point P?



y coord. of P = slope of tan

y coord of P = double the x coord

P is on $y = 2x$

P goes thru origin, tan is horiz

as you move right, P climbs

y changes by same amount with each click to the right

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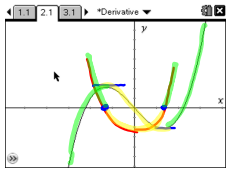
sketch the derivative



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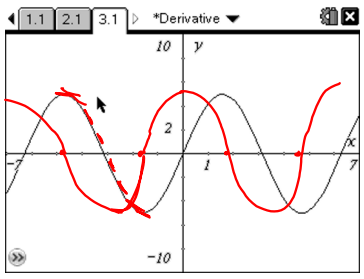
sketch the derivative



$f(x) = \sin x$

$f'(x) \stackrel{?}{=} \cos x$

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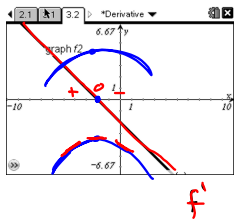
given the derivative, sketch a possible graph of f



f'

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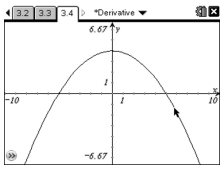
given the derivative, sketch a possible graph of *f*



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